



# RUC Advisory Committee

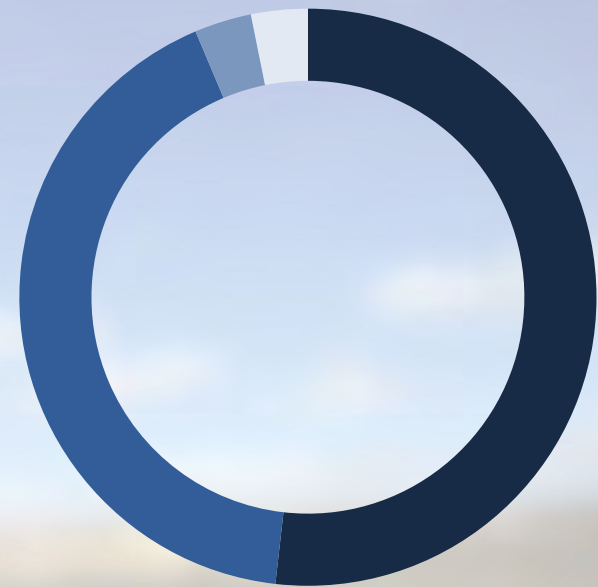
November 19, 2018

# Utah's Vehicle Fleet

## By Vehicle Type

■ Passenger	1,322,927	52%
■ Light Truck/SUV	1,068,232	42%
■ Heavy Truck	81,662	3%
■ Motorcycle	80,881	3%

Total Vehicles: **2,553,702**



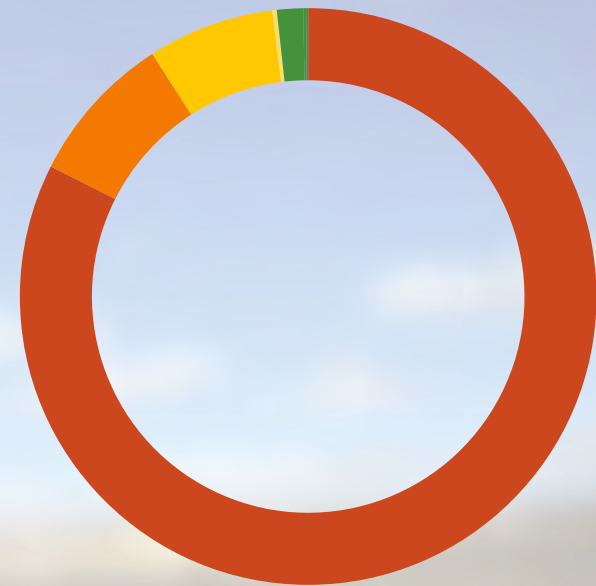
# Utah's Vehicle Fleet

## By Fuel Type

■ Gasoline	2,105,454	82%
■ Diesel	216,081	9%
■ Flex Fuel	181,098	7%
■ All Other*	51,069	2%
Total Vehicles	<b>2,553,702</b>	

\*RUC-eligible Types:

Gas Hybrid	37,460	84%
EV	4,016	9%
PHEV	2,988	7%
Total RUC-Eligible Vehicles	<b>44,464</b>	



## Utah Growth in EV & Hybrid Registration

Electric vehicles  
experienced

**47%**

annual growth in  
registration 2015–18.

\*Increase of 1,108 EVs from 2017-18

Hybrid vehicles  
experienced

**14%**

annual growth in  
registration 2015–18.

\*Increase of 4,488 hybrids from 2017-18

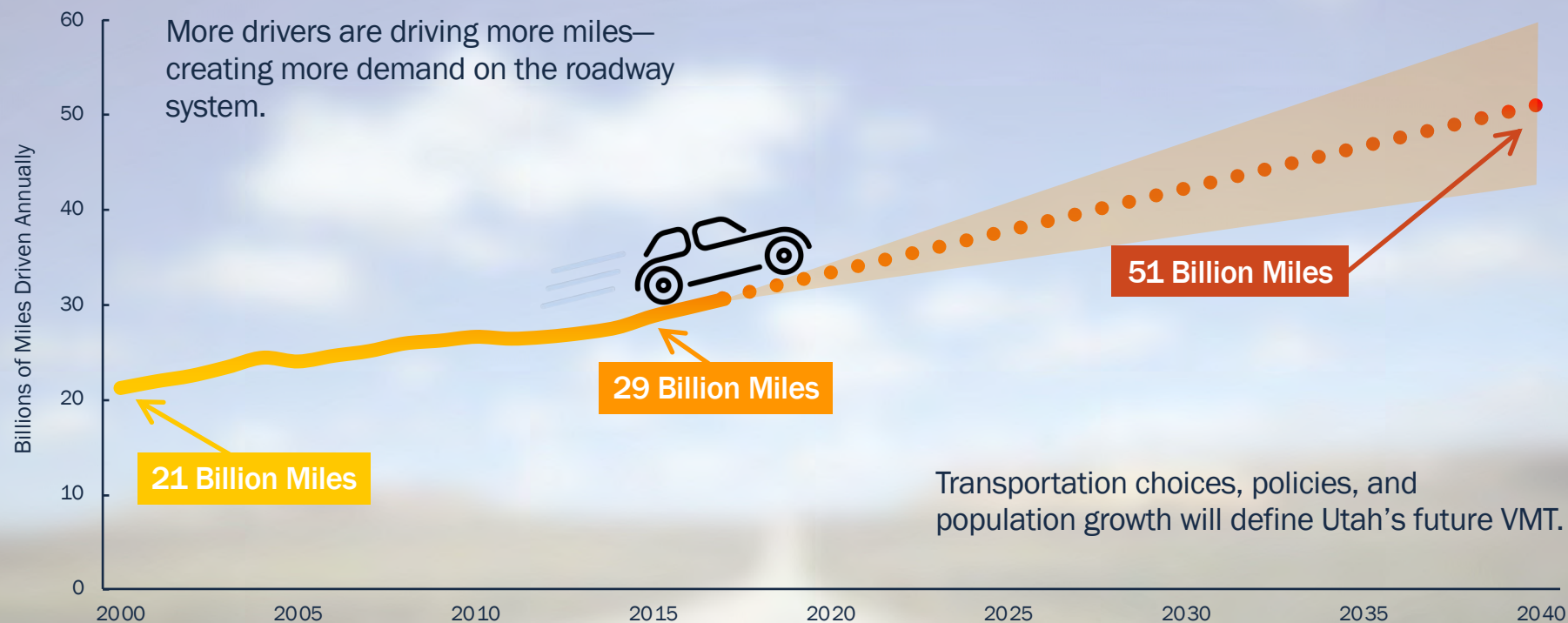
# Average Annual State Gas Tax Payments

<b>EV</b> DOESN'T APPLY <b>\$0</b>  	<b>Gas Hybrid</b> 50 MPG <b>\$91</b>  	<b>Sedan</b> 25 MPG <b>\$184</b>  	<b>Pickup</b> 15 MPG <b>\$303</b>  	<b>Heavy Truck</b> 6 MPG <b>\$757</b>  
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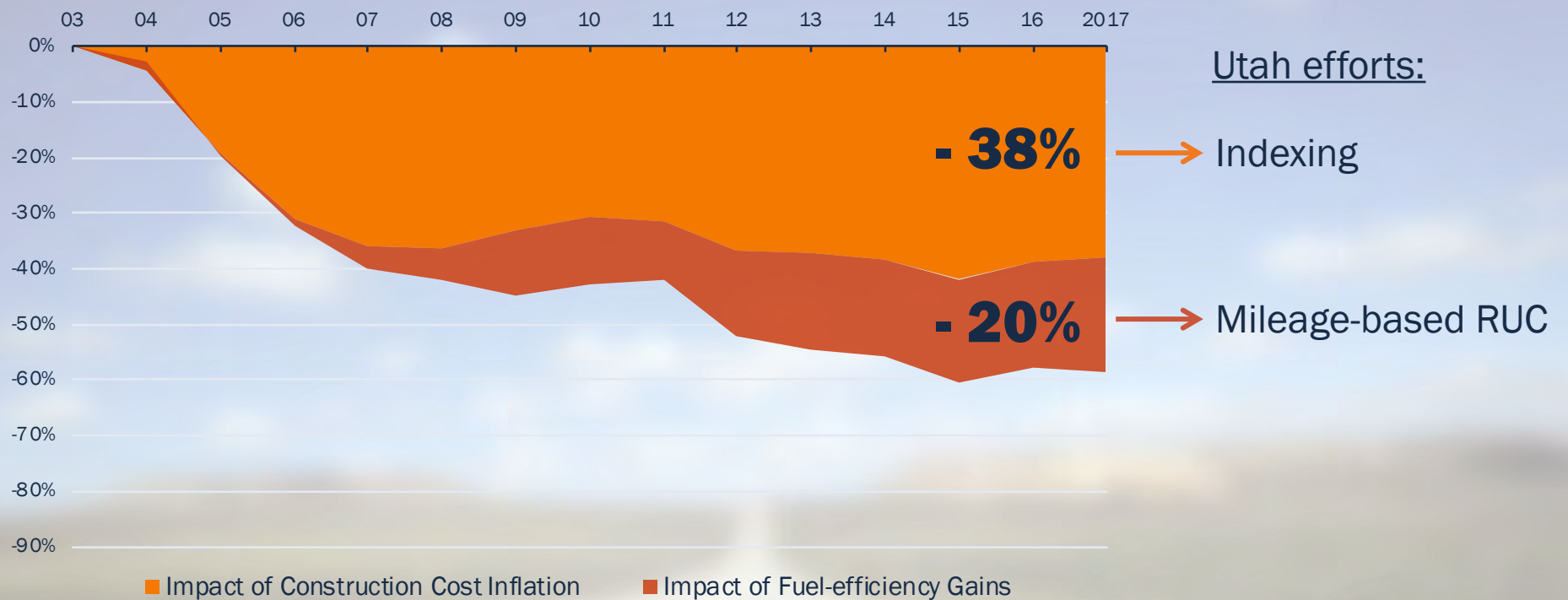
1. Based on 29.4 cents/gal State gas tax and 15,542 miles driven annually by average Utahn.
2. Federal tax of 18.4 cents/gal for gasoline and 24.4 cents/gal for diesel not included in amounts shown above.



# Utah Vehicle Miles Traveled (VMT) Projection



# Gas Tax Revenue Decline Across the Nation



# Leveraging Tech to Better Measure Usage



Better **GPS**



Better **Car Tech**



Better **Mapping**

Public  
Paved  
\$\$\$



Public  
Unpaved  
\$\$



Private  
\$0



Interoperability



# Potential Elements of a RUC System

## Data Collection Tech

- OBD-II GPS Devices 16
- Odometer Capture 2
- ▨ Smartphone Apps 15
- ▨ Telematics 2

## Vehicle Types

- EV 16
- PHEV 16
- Gas Hybrid 16
- Autonomous 0
- Gas/Diesel 16
- Heavy Truck 2

## Systems/Processes

- DMV Registration 0
- Out-of-state Detection 16
- ▨ Public/Private Roads 16
- Regional Interop. 14
- Tolling Integration 12
- Paved/Unpaved Roads 0
- Federal/State Lands 0

# Technical Recommendations

# Technical Recommendations



Let's walk through the recommendations through the lens of a RUC enrollee.



# Why Enroll in RUC?

## Save Money

If enrollees don't drive many miles/year, they may save money relative to the annual fee.



## Pay-as-you-go

Enrollees may pay as they go instead of paying the annual fee.



## Early Adopters

Enrollees may be curious about RUC program and want to try it out.



## Integration with Annual DMV Registration Process

Alternative fuel vehicle owner receives registration notice to pay annual fee

After Jan 1, 2020, notice informs owner of **two options** for paying fee





# Transportation Fee Payment Options

## Option A

Owners of alternative fuel vehicles pay **annual flat fee**, intended to offset lost gas tax revenue.

Annual Fee Schedule			
Year	EV	PHEV	Gas Hybrid
2019	\$60	\$26	\$10
2020	\$90	\$39	\$15
2021+	\$120	\$52	\$20

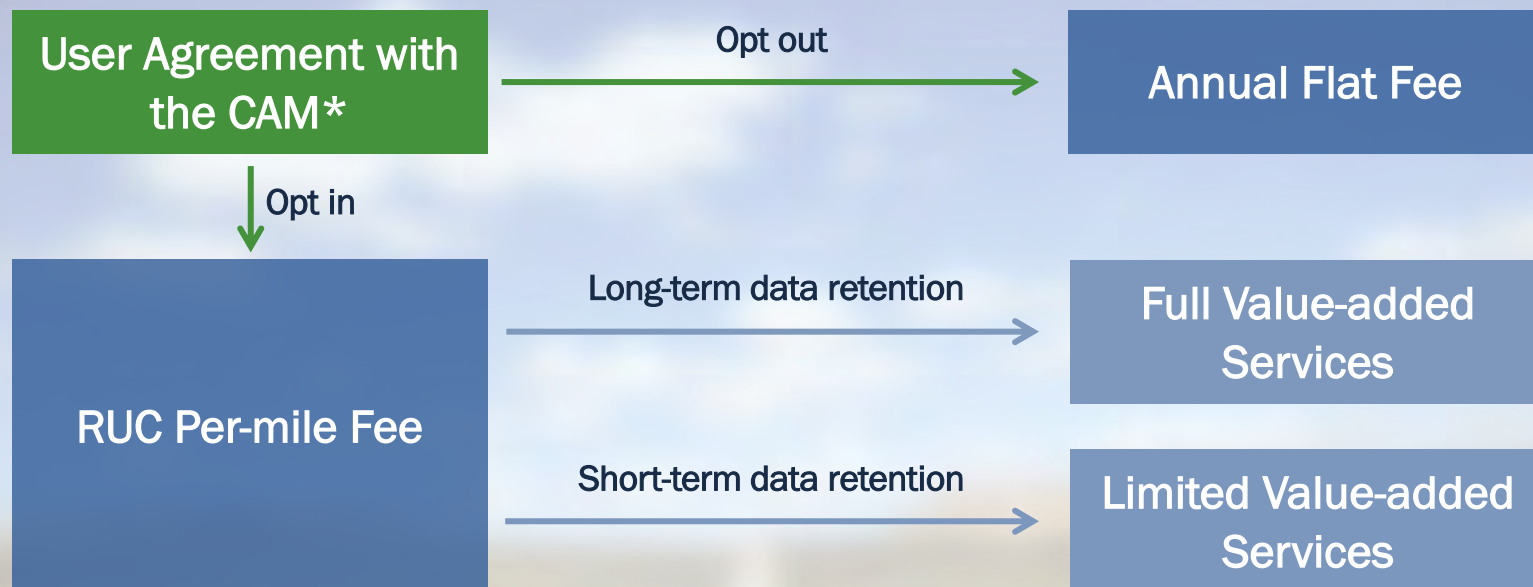
## Option B

Owners of alternative fuel vehicles enroll in **RUC program** and pay a **per-mile fee** (not to exceed annual flat fee) based on actual miles driven.

Per-mile Fee
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# Approach to Enrollment



\* CAM = Commercial Account Manager

# Enrollee Privacy Options

## RUC Per-mile Fee

RUC payer is able to:

- View their collected data
- Dispute erroneous charges
- Be protected from GRAMA requests
- Be protected from release of personal data except in criminal proceeding

CAM is able to:

- Collect raw location data but not share w/State (except for disputes)
- Send mileage summaries to State
- Share aggregated anonymized data with the State
- Sell aggregated anonymized data

Long-term  
data retention

## Full Value-added Services

CAM retains raw location data until enrollee leaves RUC system

Short-term  
data retention

## Limited Value-added Services

CAM retains raw location data for current billing cycle only

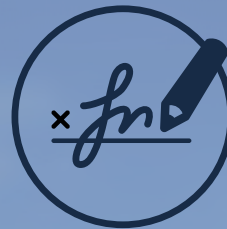
# Enrollment Process



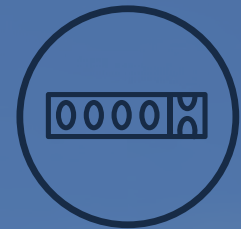
Enroll online with  
name and license  
plate number.



Provide valid credit  
or debit card for  
prepaid wallet.



Complete CAM  
user agreement.



Submit initial  
odometer capture.

## Mileage Reporting Options

- Majority will use location-based device
- Vehicles without OBD-II ports may use telematics option
- Odometer capture at enrollment and at annual registration





## Enforcement & Dispute Resolution

- Enrollees keep devices and credit card info active
- Disputes may be resolved through odometer capture
- Exit process for situations such as unresolved disputes, vehicle sales, or moving out of state



# Implementation Efforts



CAM Procurement



RUC Legislation  
& Admin Rules



Financial  
Modeling

# Commercial Account Manager (CAM) Procurement



Recent meetings with vendors



Request for Information (RFI) in process

- Posted: Oct 2018
- Due: Nov 2018

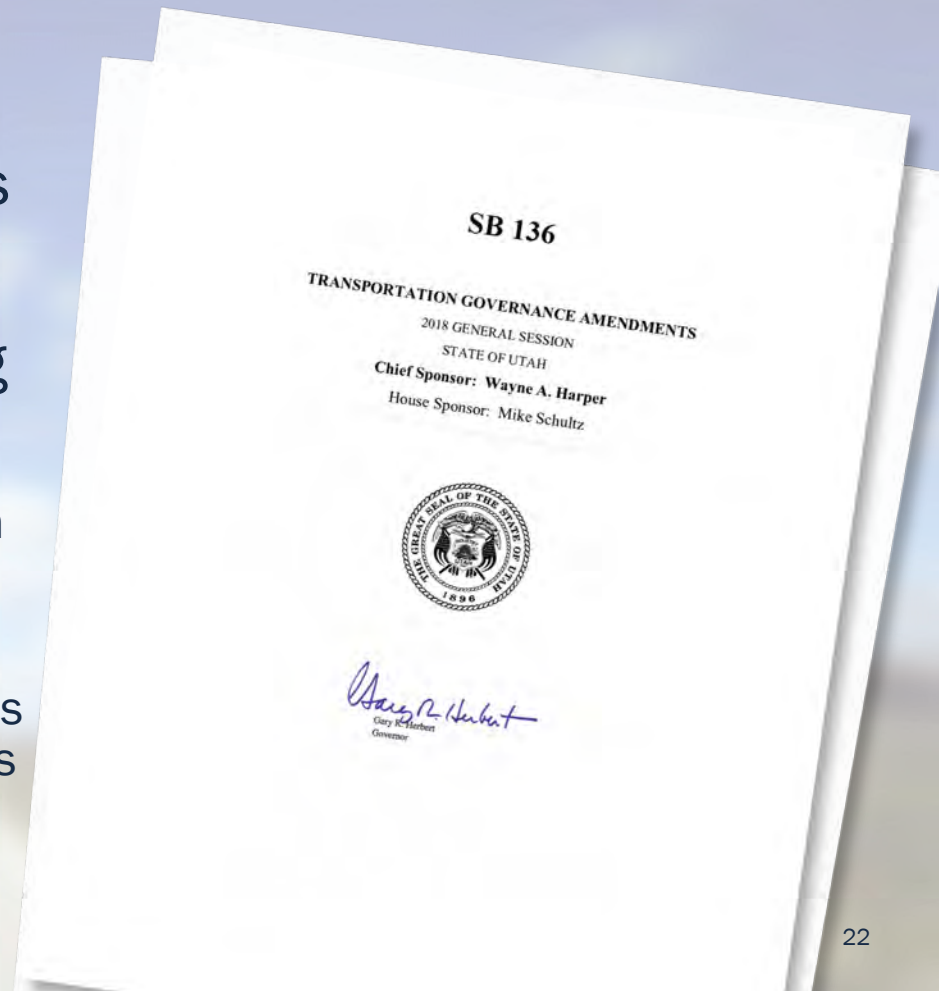


Request for Proposals (RFP) coming up

- Draft: Dec 2018
- Final: Feb 2019
- Selection: Summer 2019

## Legislative Elements

- Privacy and security protections
- RUC fee yearly payment cap
- UDOT/DMV information sharing
- Rulemaking authority for UDOT
  - To hire CAM and administer program
  - Exempt of out-of-state miles
  - Limit hybrid enrollment, if needed
  - Implement enforcement mechanisms such as registration hold or penalties



# RUC System Financial Planning

## Customized Revenue & Cost Model

- See effects of policy choices
- Forecast financial viability
- Identify RUC rate parameters





# RUC Rate-setting Process

## Option A

Legislature sets rate directly.

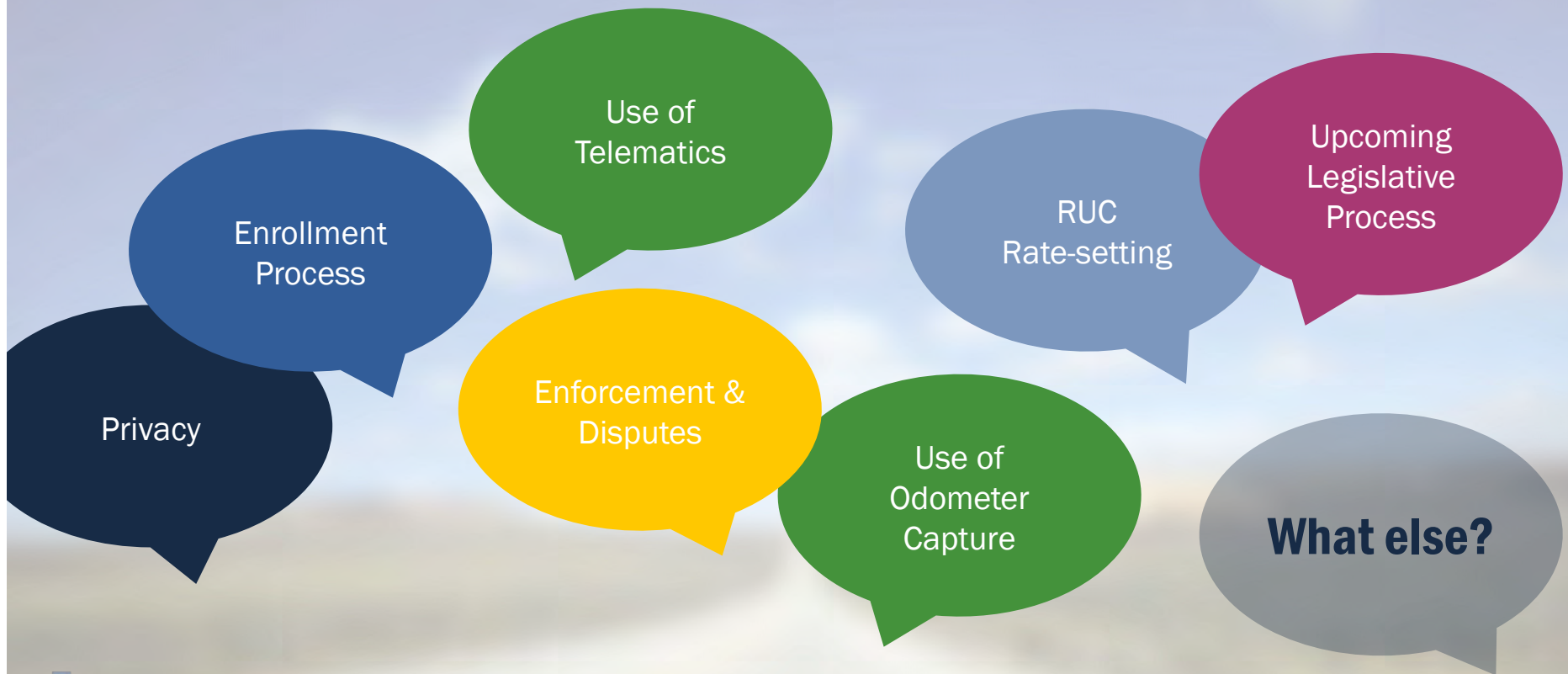
## Option B

UDOT recommends rate to  
Transportation Commission.

Commission approves the rate.



# Advisory Committee Discussion



## Communication Update

- Fall 2018
  - Presentations
  - Website link and information page
- January 2019
  - Surveys and focus groups
  - Legislative communications
- Spring 2019
  - RUC Utah branding
  - Website and social media pages



## Future Roles of Advisory Committee



Monitor 2019  
legislative  
session



Next meeting  
likely in early  
April



Monitor alt-fuel  
RUC  
implementation



Recommend  
future RUC pilot  
ideas